

RAW SEQUENCE LISTING

DATE: 07/19/2001

PATENT APPLICATION: US/09/775,181

TIME: 12:02:41

Input Set : A:\LEX-0129-USA SEQLIST.txt

Output Set: N:\CRF3\07192001\I775181.raw

ENTERED

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4 <110> APPLICANT: Donoho, Gregory
5 Hilbun, Erin
7 <120> TITLE OF INVENTION: Novel Human Membrane Proteins and
8 Polynucleotides Encoding the Same
11 <130> FILE REFERENCE: LEX-0129-USA
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/775,181
C--> 13 <141> CURRENT FILING DATE: 2001-02-01
13 <150> PRIOR APPLICATION NUMBER: US 60/180,414
14 <151> PRIOR FILING DATE: 2000-02-04
16 <160> NUMBER OF SEQ ID NOS: 5
18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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21 <211> LENGTH: 3648
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
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28 aaggggaagc cgcacgcca gcagccgggt cgagcctctg cctcggaact ctcggctccc 180
29 tggagccgct ccaccgatgg caccatcttg gcgcagaaac tcgccgagga ggtgcccattg 240
30 gacgtggcct cttacctcta caccggggac tcccaccagc tgaagcgagc caactgctcc 300
31 ggcgcctacg agttggcggg cctgcgcggg aagtggccag cctggccag cgcgcacccc 360
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37 gagtggttcc acggcctccg gcgcaagtgg agggccact tacaccgccc cggccccaat 720
38 caggggcccc ggggcctggg ccacagctgg cggcgcaagg acgggctcgg cggggacaag 780
39 agccacttca agtggctctc gccttatctg gactgcgaga acgggagtta caagcccggg 840
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42 gatggctggt ttccaggaac tcataaatgc cacctcaaca attcagagtg tatgccatt 1020
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57 ctcatcatct ctgtatatatt ccatacaatt agatttgttc ttgcctcaag acttcagtct 1920
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59 ttgcttttga ttccaaagt ttacattca agcaataacc cagagatga tattgctaca 2040
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61 aattcagcct ggagtgaagc cagcttggat ccagaggaca ttggggacga gctgaaaaaa 2160
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84 ttccagcaac ctttaacatc acgagcagag gtttgcctt gggagtttga gacccagct 3540
85 caaccaaag ctggaagaag ttagcttcta cctgcctctt ctgctctaag tgcaataag 3600
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88 <210> SEQ ID NO: 2

89 <211> LENGTH: 1215

90 <212> TYPE: PRT

91 <213> ORGANISM: Homo sapiens

93 <400> SEQUENCE: 2

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95 1 5 10 15
96 Leu Gly Leu Gly Ala Val Gly Ala Ser Arg Asp Pro Gln Gly Arg Pro
97 20 25 30
98 Asp Ser Pro Arg Glu Arg Thr Pro Lys Gly Lys Pro His Ala Gln Gln
99 35 40 45
100 Pro Gly Arg Ala Ser Ala Ser Asp Ser Ser Ala Pro Trp Ser Arg Ser
101 50 55 60
102 Thr Asp Gly Thr Ile Leu Ala Gln Lys Leu Ala Glu Glu Val Pro Met
103 65 70 75 80
104 Asp Val Ala Ser Tyr Leu Tyr Thr Gly Asp Ser His Gln Leu Lys Arg
105 85 90 95
106 Ala Asn Cys Ser Gly Arg Tyr Glu Leu Ala Gly Leu Pro Gly Lys Trp
107 100 105 110

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108 Pro Ala Leu Ala Ser Ala His Pro Ser Leu His Arg Ala Leu Asp Thr
109      115      120      125
110 Leu Thr His Ala Thr Asn Phe Leu Asn Val Met Leu Gln Ser Asn Lys
111      130      135      140
112 Ser Arg Glu Gln Asn Leu Gln Asp Asp Leu Asp Trp Tyr Gln Ala Leu
113 145      150      155      160
114 Val Trp Ser Leu Leu Glu Gly Glu Pro Ser Ile Ser Arg Ala Ala Ile
115      165      170      175
116 Thr Phe Ser Thr Asp Ser Leu Ser Ala Pro Ala Pro Gln Val Phe Leu
117      180      185      190
118 Gln Ala Thr Arg Glu Glu Ser Arg Ile Leu Leu Gln Asp Leu Ser Ser
119      195      200      205
120 Ser Ala Pro His Leu Ala Asn Ala Thr Leu Glu Thr Glu Trp Phe His
121      210      215      220
122 Gly Leu Arg Arg Lys Trp Arg Pro His Leu His Arg Arg Gly Pro Asn
123 225      230      235      240
124 Gln Gly Pro Arg Gly Leu Gly His Ser Trp Arg Arg Lys Asp Gly Leu
125      245      250      255
126 Gly Gly Asp Lys Ser His Phe Lys Trp Ser Pro Pro Tyr Leu Glu Cys
127      260      265      270
128 Glu Asn Gly Ser Tyr Lys Pro Gly Trp Leu Val Thr Leu Ser Ser Ala
129      275      280      285
130 Ile Tyr Gly Leu Gln Pro Asn Leu Val Pro Glu Phe Arg Gly Val Met
131      290      295      300
132 Lys Val Asp Ile Asn Leu Gln Lys Val Asp Ile Asp Gln Cys Ser Ser
133 305      310      315      320
134 Asp Gly Trp Phe Ser Gly Thr His Lys Cys His Leu Asn Asn Ser Glu
135      325      330      335
136 Cys Met Pro Ile Lys Gly Leu Gly Phe Val Leu Gly Ala Tyr Glu Cys
137      340      345      350
138 Ile Cys Lys Ala Gly Phe Tyr His Pro Gly Val Leu Pro Val Asn Asn
139      355      360      365
140 Phe Arg Arg Arg Gly Pro Asp Gln His Ile Ser Gly Ser Thr Lys Asp
141      370      375      380
142 Val Ser Glu Glu Ala Tyr Val Cys Leu Pro Cys Arg Glu Gly Cys Pro
143 385      390      395      400
144 Phe Cys Ala Asp Asp Ser Pro Cys Phe Val Gln Glu Asp Lys Tyr Leu
145      405      410      415
146 Arg Leu Ala Ile Ile Ser Phe Gln Gly Leu Cys Met Leu Leu Asp Phe
147      420      425      430
148 Val Ser Met Leu Val Val Tyr His Phe Arg Lys Ala Lys Ser Ile Arg
149      435      440      445
150 Ala Ser Gly Leu Ile Leu Leu Glu Thr Ile Leu Phe Gly Ser Leu Leu
151      450      455      460
152 Leu Tyr Phe Pro Val Val Ile Leu Tyr Phe Glu Pro Ser Thr Phe Arg
153 465      470      475      480
154 Cys Ile Leu Leu Arg Trp Ala Arg Leu Leu Gly Phe Ala Thr Val Tyr
155      485      490      495
156 Gly Thr Val Thr Leu Lys Leu His Arg Val Leu Lys Val Phe Leu Ser

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157          500          505          510
158 Arg Thr Ala Gln Arg Ile Pro Tyr Met Thr Gly Gly Arg Val Met Arg
159          515          520          525
160 Met Leu Ala Val Ile Leu Leu Val Val Phe Trp Phe Leu Ile Gly Trp
161          530          535          540
162 Thr Ser Ser Val Cys Gln Asn Leu Glu Lys Gln Ile Ser Leu Ile Gly
163 545          550          555          560
164 Gln Gly Lys Thr Ser Asp His Leu Ile Phe Asn Met Cys Leu Ile Asp
165          565          570          575
166 Arg Trp Asp Tyr Met Thr Ala Val Ala Glu Phe Leu Phe Leu Leu Trp
167          580          585          590
168 Gly Val Tyr Leu Cys Tyr Ala Val Arg Thr Val Pro Ser Ala Phe His
169          595          600          605
170 Glu Pro Arg Tyr Met Ala Val Ala Val His Asn Glu Leu Ile Ile Ser
171          610          615          620
172 Ala Ile Phe His Thr Ile Arg Phe Val Leu Ala Ser Arg Leu Gln Ser
173 625          630          635          640
174 Asp Trp Met Leu Met Leu Tyr Phe Ala His Thr His Leu Thr Val Thr
175          645          650          655
176 Val Thr Ile Gly Leu Leu Leu Ile Pro Lys Phe Ser His Ser Ser Asn
177          660          665          670
178 Asn Pro Arg Asp Asp Ile Ala Thr Glu Ala Tyr Glu Asp Glu Leu Asp
179          675          680          685
180 Met Gly Arg Ser Gly Ser Tyr Leu Asn Ser Ser Ile Asn Ser Ala Trp
181          690          695          700
182 Ser Glu His Ser Leu Asp Pro Glu Asp Ile Arg Asp Glu Leu Lys Lys
183 705          710          715          720
184 Leu Tyr Ala Gln Leu Glu Ile Tyr Lys Arg Lys Lys Met Ile Thr Asn
185          725          730          735
186 Asn Pro His Leu Gln Lys Lys Arg Cys Ser Lys Lys Gly Leu Gly Arg
187          740          745          750
188 Ser Ile Met Arg Arg Ile Thr Glu Ile Pro Glu Thr Val Ser Arg Gln
189          755          760          765
190 Cys Ser Lys Glu Asp Lys Glu Gly Ala Asp His Gly Thr Ala Lys Gly
191          770          775          780
192 Thr Ala Leu Ile Arg Lys Asn Pro Pro Glu Ser Ser Gly Asn Thr Gly
193 785          790          795          800
194 Lys Ser Lys Glu Glu Thr Leu Lys Asn Arg Val Phe Ser Leu Lys Lys
195          805          810          815
196 Ser His Ser Thr Tyr Asp His Val Arg Asp Gln Thr Glu Glu Ser Ser
197          820          825          830
198 Ser Leu Pro Thr Glu Ser Gln Glu Glu Glu Thr Thr Glu Asn Ser Thr
199          835          840          845
200 Leu Glu Ser Leu Ser Gly Lys Lys Leu Thr Gln Lys Leu Lys Glu Asp
201          850          855          860
202 Ser Glu Ala Glu Ser Thr Glu Ser Val Pro Leu Val Cys Lys Ser Ala
203 865          870          875          880
204 Ser Ala His Asn Leu Ser Ser Glu Lys Lys Thr Gly His Pro Arg Thr
205          885          890          895

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206 Ser Met Leu Gln Lys Ser Leu Ser Val Ile Ala Ser Ala Lys Glu Lys
207          900          905          910
208 Thr Leu Gly Leu Ala Gly Lys Thr Gln Thr Ala Gly Val Glu Glu Arg
209          915          920          925
210 Thr Lys Ser Gln Lys Pro Leu Pro Lys Asp Lys Glu Thr Asn Arg Asn
211          930          935          940
212 His Ser Asn Ser Asp Asn Thr Glu Thr Lys Asp Pro Ala Pro Gln Asn
213 945          950          955          960
214 Ser Asn Pro Ala Glu Glu Pro Arg Lys Pro Gln Lys Ser Gly Ile Met
215          965          970          975
216 Lys Gln Gln Arg Val Asn Pro Thr Thr Ala Asn Ser Asp Leu Asn Pro
217          980          985          990
218 Gly Thr Thr Gln Met Lys Asp Asn Phe Asp Ile Gly Glu Val Cys Pro
219          995          1000          1005
220 Trp Glu Val Tyr Asp Leu Thr Pro Gly Pro Val Pro Ser Glu Ser Lys
221          1010          1015          1020
222 Val Gln Lys His Val Ser Ile Val Ala Ser Glu Met Glu Lys Asn Pro
223 1025          1030          1035          1040
224 Thr Phe Ser Leu Lys Glu Lys Ser His His Lys Pro Lys Ala Ala Glu
225          1045          1050          1055
226 Val Cys Gln Gln Ser Asn Gln Lys Arg Ile Asp Lys Ala Glu Val Cys
227          1060          1065          1070
228 Leu Trp Glu Ser Gln Gly Gln Ser Ile Leu Glu Asp Glu Lys Leu Leu
229          1075          1080          1085
230 Ile Ser Lys Thr Pro Val Leu Pro Glu Arg Ala Lys Glu Glu Asn Gly
231          1090          1095          1100
232 Gly Gln Pro Arg Ala Ala Asn Val Cys Ala Gly Gln Ser Glu Glu Leu
233 1105          1110          1115          1120
234 Pro Pro Lys Ala Val Ala Ser Lys Thr Glu Asn Glu Asn Leu Asn Gln
235          1125          1130          1135
236 Ile Gly His Gln Glu Lys Lys Thr Ser Ser Glu Glu Asn Val Arg
237          1140          1145          1150
238 Gly Ser Tyr Asn Ser Ser Asn Asn Phe Gln Gln Pro Leu Thr Ser Arg
239          1155          1160          1165
240 Ala Glu Val Cys Pro Trp Glu Phe Glu Thr Pro Ala Gln Pro Asn Ala
241          1170          1175          1180
242 Gly Arg Ser Val Ala Leu Pro Ala Ser Ser Ala Leu Ser Ala Asn Lys
243 1185          1190          1195          1200
244 Ile Ala Gly Pro Arg Lys Glu Glu Ile Trp Asp Ser Phe Lys Val
245          1205          1210          1215
247 <210> SEQ ID NO: 3
248 <211> LENGTH: 1800
249 <212> TYPE: DNA
250 <213> ORGANISM: Homo sapiens
252 <400> SEQUENCE: 3
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255 aaggggaagc cgcacgccca gcagccgggt cgagcctctg cctcggactc ctcggctccc      180
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/775,181

DATE: 07/19/2001

TIME: 12:02:42

Input Set : A:\LEX-0129-USA SEQLIST.txt

Output Set: N:\CRF3\07192001\I775181.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date